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Full length sequence of LysA (NRRL-B11474)
DIAMINOPIMELATE DECARBOXYLASE (Lys A) (SEQ ID NO:12)

MATVENFNELPAHVWPRNAVRQEDGVVTAGVPLPDLAEEYGTPLFVVDEDDFRSRCRDM
ATAFGGPGNVHYASKAFLTKTIARWVDEEGLALDIASINELGIALAAGFPASRITAHGNN
KGVEFLRALVQNGVGHVVLDSAQELELLDYVAAGEGKIQDVLIRVKPGIEAHTHEFIATS
HEDQKFGFSLASGSAFEAAKAANNAENLNVLGHLCHVGSQVFDAEFGKLAERVLGLYSQ
IHSELGVALPELDLGGGYGIAYTADEEPLNVAEVASD~~L~~LTAVGKMAELGIDAPTVLVEP
GRAIAGPSTVTIYEVGTTKNVHVDDDTRRYVAVDGGMSDNIRPALYGSEYDARVVSRAF
EGDPVSTRIVGSHCESGDILINDEIYPSDITSGDFLALAATGAYCYAMSSRYNAFTRPAV
VSVRAGSSRLMLRRETLDDILSLEA

FIG. 13

B21

Appl. No. 09/722,441; Group Art Unit: 1645
Dkt. No. 1533.1030002; Batch No.: To Be Assigned
Inventor(s): Hanke et al.; Tel: 202/371-2600
Title: Increased Lysine Production by Gene Amplification



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KGVEFLRALVQNGVGHVLDQAQELELLDYVAAGEGKIQDVLIRVKPGIEAHTHEFIATS
HEDQKFGFSLASGSAFEAAKAANNAENLNVLVGLHCHVGSQVFDAAEGFKLAAERVGLYSQ
IHSELGVVALPELDLGGGYGIAYTADEEPLNVAEVASDLLTAVGKMAELGIDAPTVLVEP
GRAIAGPSTVTIYEVGTTKNVHVDDDKTRRYVAVDGGMSDNIRPALYGSEYDARVVSRFA
EGDPVSTRIVGSHCESGDILINDEIYPSDITSGDFLALAATGAYCYAMSSRYNAFTRPAV
VSVRAGSSRLMLRRETLDDILSLEA

FIG. 13